

9. PREPARE ENGINE

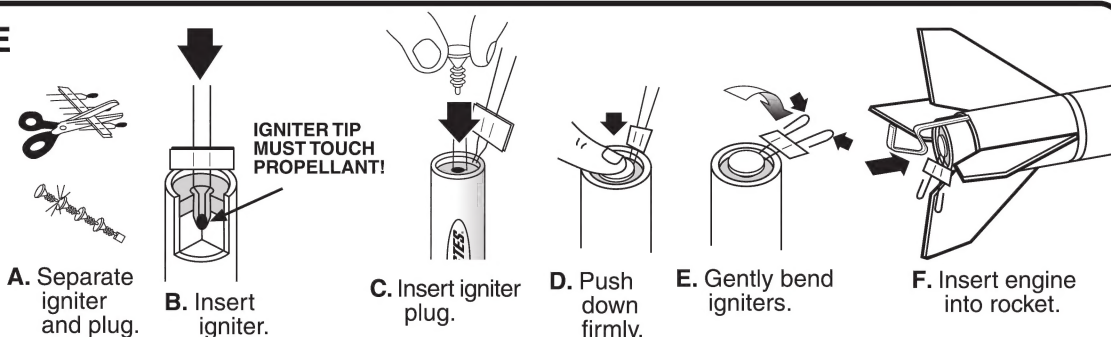
⚠ WARNING: FLAMMABLE

To avoid serious injury, read instructions & NAR Safety Code included with engines.

PREPARE ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE

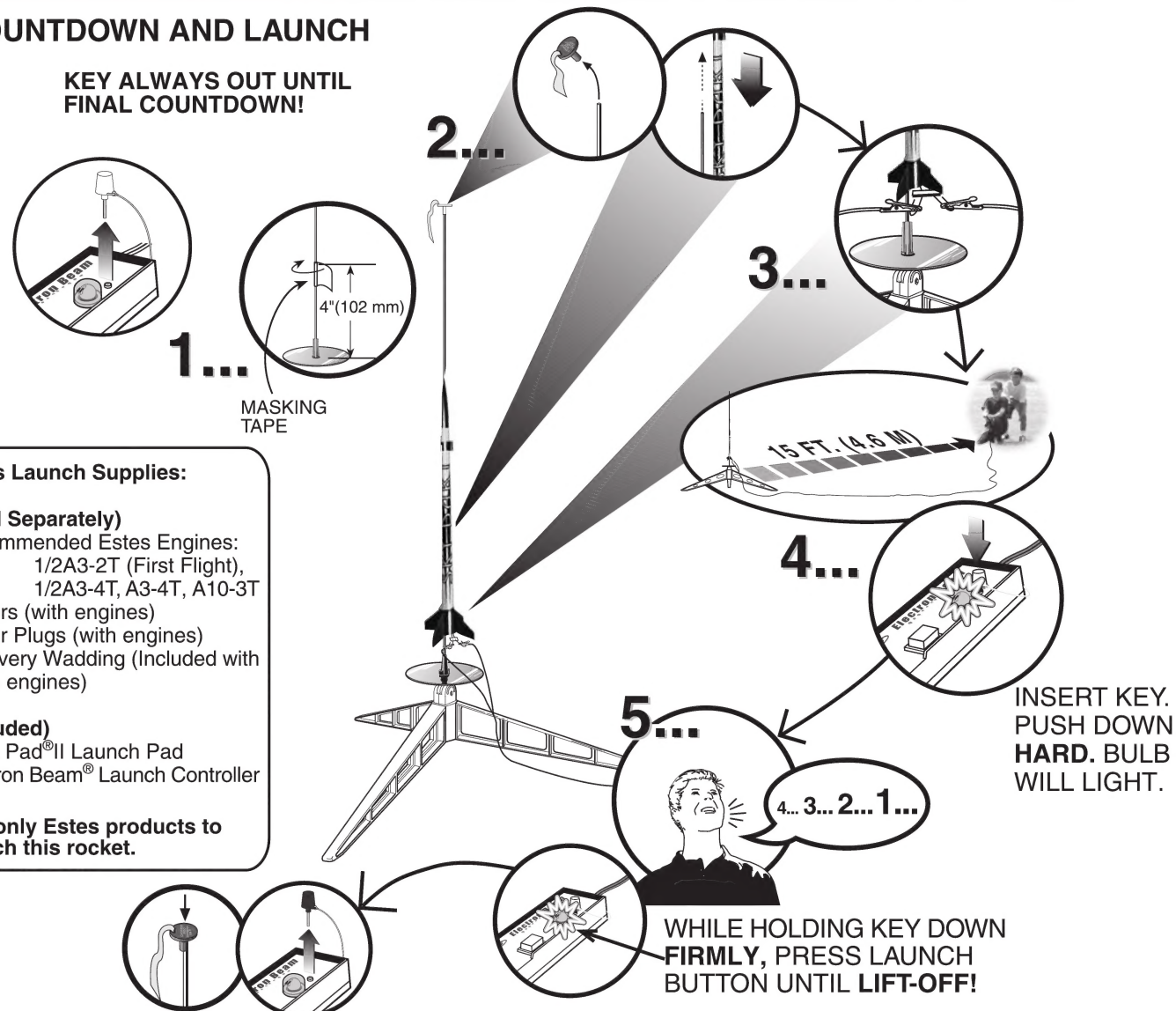
PREPARING TO LAUNCH!

If you do not use your prepared engine, remove the igniter before storing engine.



COUNTDOWN AND LAUNCH

KEY ALWAYS OUT UNTIL FINAL COUNTDOWN!



Estes Launch Supplies:

(Sold Separately)

Recommended Estes Engines:

1/2A3-2T (First Flight),
1/2A3-4T, A3-4T, A10-3T

Igniters (with engines)

Igniter Plugs (with engines)

Recovery Wadding (Included with some engines)

(Included)

Porta Pad® II Launch Pad

Electron Beam® Launch Controller

Use only Estes products to launch this rocket.

PRECAUTIONS



NAR Safety Code



This paper can be recycled.



NO DRY GRASS OR WEEDS



PRE-LAUNCH CHECK

For safety, never launch a damaged rocket. Check the rocket's body, nose cone and fins. Also, check the engine mount, recovery system and launch lugs (2). Repair any damage before launching the rocket.

FLYING YOUR ROCKET

Choose a large field (250 ft. [76 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little or no wind and good visibility.

Always follow the enclosed National Association of Rocketry (NAR) SAFETY CODE.

MISFIRES

TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET! Disconnect the igniter clips and remove the engine. Take the plug and igniter out of the engine. If the igniter has burned, it worked but did not ignite the engine because it was not touching the propellant inside the engine. Put a new igniter all the way inside the engine without bending it. Push the plug in place. Repeat the steps under Countdown and Launch.



www.estesrockets.com

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SKY DART™

FLYING MODEL ROCKET KIT INSTRUCTIONS
KEEP FOR FUTURE REFERENCE.

#1475



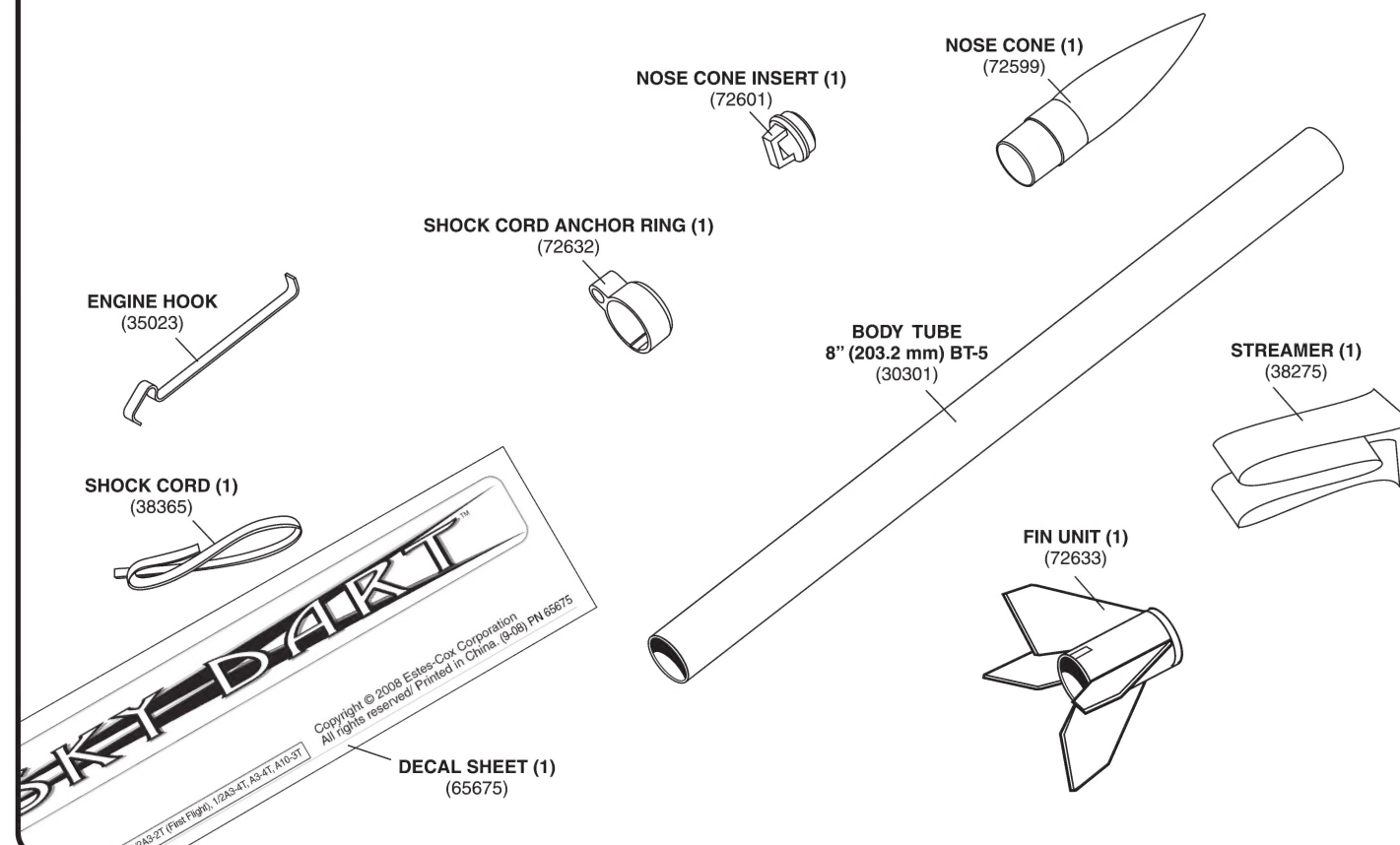
ASSEMBLY TIP

Read all instructions before beginning work on your model. Make sure you have all parts and supplies.

Please refer to included Launch Set instructions for parts identification, assembly and use of the Estes Launch System.

TEST FIT ALL PARTS TOGETHER BEFORE APPLYING ANY GLUE.

If any parts don't fit properly, sand as required for precision assembly.



SUPPLIES

In addition to the parts included in the kit you will also need:



PENCIL



SCISSORS



MODELING KNIFE



PLASTIC CEMENT



MASKING TAPE



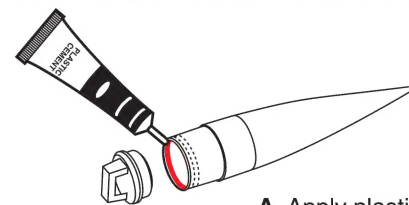
RULER



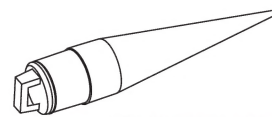
FINE SAND PAPER
(#320-#400 GRIT)

ALL GLUED AREAS ARE SHOWN IN RED

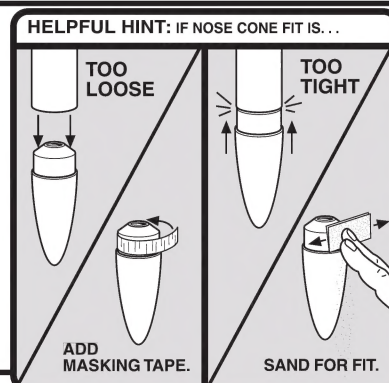
1. NOSE CONE ASSEMBLY



A. Apply plastic cement inside nose cone and push insert in until snug. Let dry.

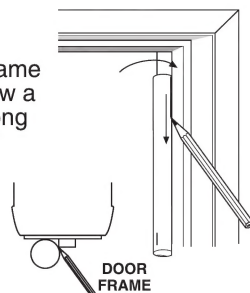


COMPLETED NOSE CONE

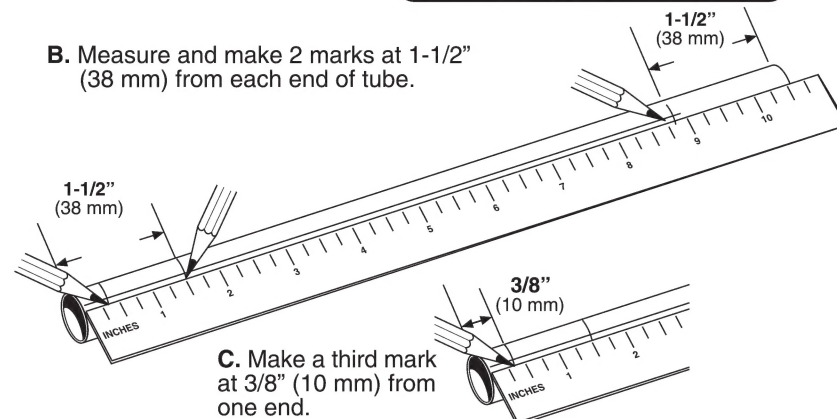


2. TUBE MARKING

A. Using a door frame as a guide, draw a straight line along entire length of body tube.



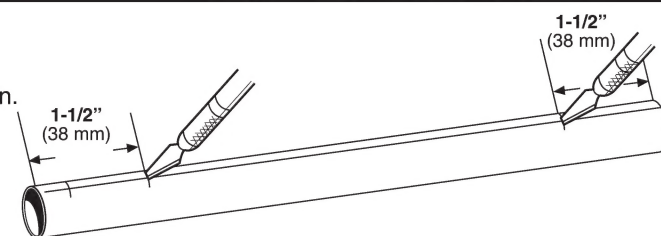
B. Measure and make 2 marks at 1-1/2" (38 mm) from each end of tube.



C. Make a third mark at 3/8" (10 mm) from one end.

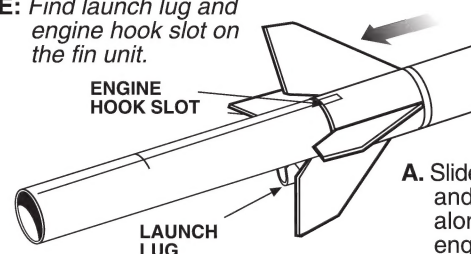
3. TUBE CUTTING

A. Cut a 1/8" (3 mm) wide slit at each mark as shown.
Note: Do not slit at 3/8" (10 mm) mark.

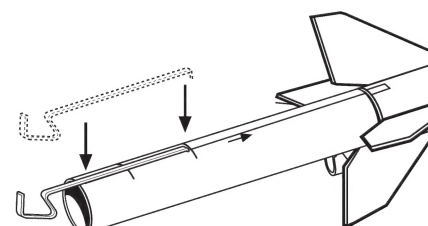


4. FIN UNIT ASSEMBLY

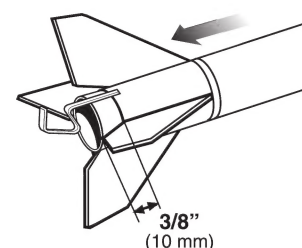
NOTE: Find launch lug and engine hook slot on the fin unit.



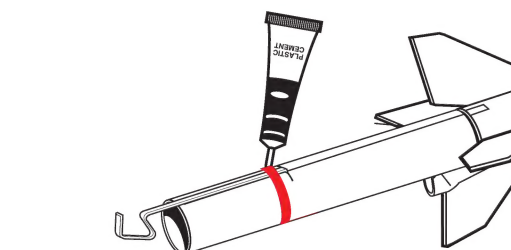
A. Slide the fin onto the body tube and position it about halfway along the tube. Place the engine hook slot over the line you drew in step 2A.



B. Insert one end of the engine hook into the slit.

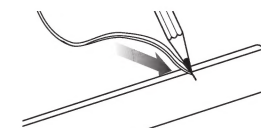


D. Slide fin unit down tube so that engine hook slot is over engine hook. Push until rear of fin unit touches the 3/8" (10 mm) mark. Wipe away any excess plastic cement. Let dry.

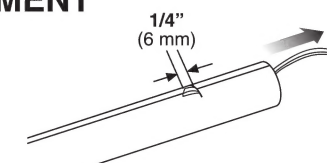


C. Apply tube-type plastic cement around body tube.

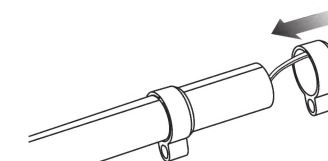
5. SHOCK CORD MOUNT ATTACHMENT



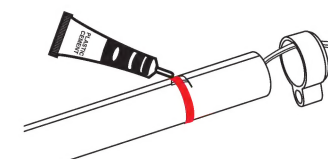
A. Use a pencil to push one end of shock cord into forward slit.



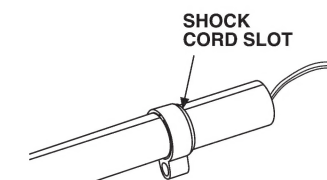
B. Pull the shock cord through the slit and out the forward end of the body tube leaving 1/4" (6 mm) exposed.



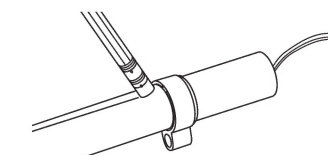
C. Placing slot in shock cord anchor ring over line, slide ring onto tube. Launch lug on ring should be in line with launch lug on fin unit. If not, remove ring, turn over and replace on tube.



D. Spread a band of plastic cement around body tube just behind slit.

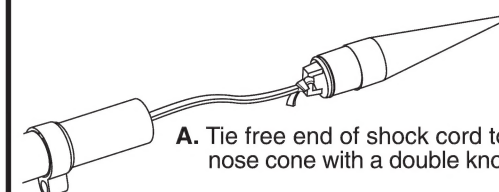


E. Push anchor ring down over shock cord until front end of ring is even with slit. Wipe away any excess cement. Let dry.

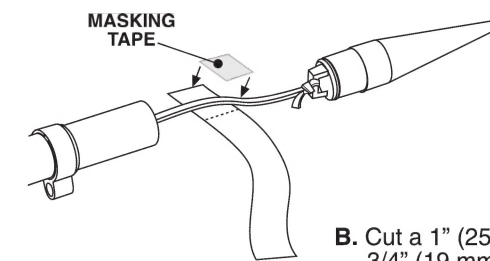


F. Erase line on the body tube.

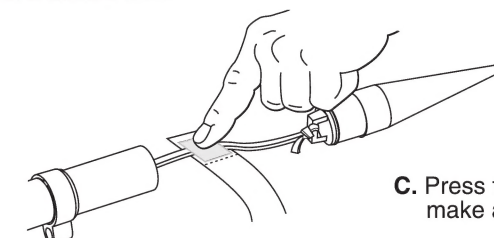
6. RECOVERY SYSTEM ATTACHMENT



A. Tie free end of shock cord to nose cone with a double knot.



B. Cut a 1" (25 mm) long piece of 3/4" (19 mm) wide masking tape. Lay shock cord over end of streamer and tape shock cord to streamer.



C. Press tape down firmly to make a strong bond.

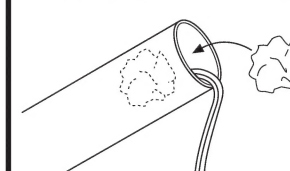
7. APPLY DECALS



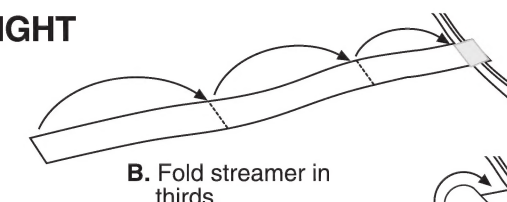
A. Peel decals from backing sheet and apply. Rub down to remove bubbles.

B. Apply recommended engine decal to opposite side of rocket.

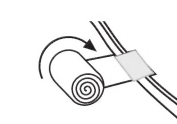
8. ROCKET PREFLIGHT



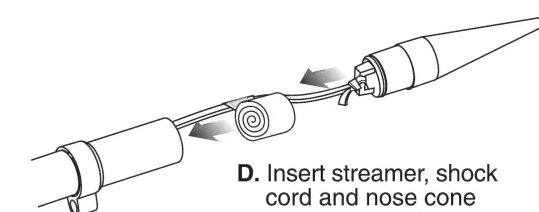
A. Tear one sheet of recovery wadding into 4 equal sections and insert loosely into tube.



B. Fold streamer in thirds.



C. Roll streamer tightly.



D. Insert streamer, shock cord and nose cone into rocket body.

NOTE: Recovery wadding and streamer must slide easily into body tube. If too tight, redo.

NOTE: Only Estes Wadding (302274) recommended.